MECHANICAL SYMBOLS

18/12	RECTANGULAR DUCT 18" WIDE BY 12" DEEP
12"	12" DIAMETER ROUND DUCT
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	ROUND (OR OVAL) ELBOW
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
X | XXX 8" / 24x24	DIFFUSER OR GRILLE TYPE / CFM BRANCH DUCT & NECK SIZE / FACE SIZE
	MANUAL BALANCE DAMPER
T RH1	THERMOSTAT
S	REMOTE TEMPERATURE SENSOR
H	HUMIDISTAT AND SENSOR
A	ALARM ANNUNCIATOR
D	DUCT SMOKE DETECTOR
F	FIRE DAMPER WITH ACCESS DOOR

ENERGY RECOVERY EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	DESIGN CONDITIONS OUTDOOR SUMMER DRY BULB (F°)	OUTDOOR SUMMER WET BULB (F°)	OUTDOOR WINTER DRY BULB (F°)	INDOOR SUMMER DRY BULB (F°)	INDOOR SUMMER RH %	INDOOR WINTER DRY BULB (F°)	INDOOR WINTER RH %	PROCESS SUPPLY AIRFLOW	SUMMER LEAVING TEMP. DB/WB (F°)	WINTER LEAVING TEMP. DB/WB (F°)	STATIC PRESSURE DROP (IN H2O)	REGENERATION EXHAUST AIRFLOW	STATIC PRESSURE DROP (IN H20)	EFFECTIVENESS % SENSIBLE RECOVERY EFF (W/INT/SUM)	LATENT RECOVERY EFF (W/INT/SUM)	ELECTRICAL SUPPLY FAN POWER (HP)	EXHAUST FAN POWER (HP)	VOLTAGE/ PHASE	FREQ.	MCA	MOCP	WEIGHT (LBS)	NOTES
ERV-1	RENEWAIRE	HE4XRT	93	77	29	75	50	70	35	3200 CFM	83.4/70.9	49.4/39.9	0.5	2950 CFM	0.5	71/71	32/65	3	3	208 V/3	60 Hz	21 A	25 A	1143	1-6

NOTES:
1. PROVIDE OUTDOOR & EXHAUST DAMPERS, MOTORIZED, LOW LEAKAGE TYPE & SPARE BELTS.
2. AIR FILTERS SHALL BE 2-INCH THICK MERV 8 EFFICIENCY IN ACCORDANCE WITH ASHRAE 52.2 TEST METHOD & WITH CLOGGED FILTER SWITCH.
3. PROVIDED BY OWNER FOR INSTALLATION BY MECHANICAL CONTRACTOR.
4. PROVIDE WITH 24-INCH TALL ROOF CURB.
5. INTAKE HOOD WITH MECH FILTERS AND EXHAUST HOOD WITH BIRD SCREEN.
6. PROVIDE WITH HINGED ACCESS DOORS.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	NECK SIZE	FACE SIZE	PATTERN	THROW DIRECTION	MATERIAL	MOUNTING	NOTES
A	NAILOR	UNI	SUPPLY	SEE PLAN	24X24	4-WAY	HORIZONTAL	STEEL	LAY-IN	1-5
B	NAILOR	AUNI-DFA	SUPPLY	SEE PLAN	24X24	4-WAY	HORIZONTAL	ALUMINUM	SURFACE	1-6
C	NAILOR	4320CBA	SUPPLY	SEE PLAN	16X16	4-WAY	HORIZONTAL	ALUMINUM	SURFACE	1-5
F	NAILOR	5145H	RETURN	22X10	24X12	---		ALUMINUM		1-5
G	NAILOR	5145H	RETURN	22X22	24X24	---		ALUMINUM	LAY-IN	1-5
J	NAILOR	5145H	EXHAUST	SEE PLAN	SEE PLAN	---		ALUMINUM	SURFACE	1-5
N	AIR CONCEPTS	SDR	SUPPLY	8"Ø	12"Ø	RADIAL	HORIZONTAL	ALUMINUM	DUCT	1-5
P	AIR CONCEPTS	SDR	SUPPLY	10"Ø	15"Ø	RADIAL	HORIZONTAL	ALUMINUM	DUCT	1-5
S	NAILOR	51FH	RETURN	46X22	48X24	---		ALUMINUM	SURFACE	1-5
T	NAILOR	5145HC	RETURN	12X4	14X6	---		ALUMINUM	SURFACE	1-5

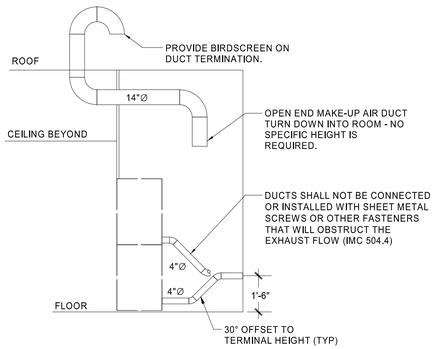
GENERAL NOTES:
A. NOT ALL AIR DEVICES LISTED MAY BE USED ON PLANS.

NOTES:
1. BORDER TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPE FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED.
2. SEE HVAC PLANS FOR LOCATION AND AIR QUANTITIES OF EACH AIR DEVICE.
3. ALL AIR DEVICES SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91.
4. NC VALUES ARE BASED UPON A 10 dB ROOM ATTENUATION.
5. OWNER PROVIDED AND CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS.
6. PROVIDE WITH OPPOSED BLADE DAMPER IN NECK.

ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	NOMINAL TONS	FAN HP	SUPPLY FAN SUPPLY (CFM)	SUPPLY FAN OSA (CFM)	SUPPLY FAN E.S.P. (IN W.C.)	COOLING CAPACITY (MBH) SENSIBLE	COOLING CAPACITY (MBH) TOTAL	ELEC INPUT (kW)	VOLTAGE	PHASE	MCA	MOCP	WEIGHT (LB)	NOTES
RTU-1	TRANE	TSJ210A3	17.5	3.1	5800	2000	1.40	131.4	184.3	54	208	3	165	175	2666	1-13
RTU-2	TRANE	TSJ102A3	8.5	3.1	3200	1200	1.00	74.3	103.5	36	208	3	107	110	1360	1-13

NOTES:
1. AIR FILTERS SHALL BE 2-INCH THICK MERV 8 EFFICIENCY IN ACCORDANCE WITH ASHRAE 52.2 TEST METHOD & WITH CLOGGED FILTER SWITCH.
2. PROVIDE WITH INTEGRAL SMOKE DETECTOR IN THE RETURN AIR SIDE OF UNIT. INTERCONNECT TO REMOTE VISUAL & AUDIBLE ALARM FIELD WIRED. UNIT SHALL BECOME DE-ENERGIZED IN THE EVENT SMOKE IS DETECTED.
3. ALL RTU(S) PROVIDED BY OWNER FOR INSTALLATION BY MECHANICAL CONTRACTOR.
4. PROVIDE WITH FACTORY INSTALLED FIELD WIRED DISCONNECT.
5. PROVIDE WITH FACTORY INSTALLED FIELD WIRED GFCI OUTLET. OUTLET SHALL REMAIN ENERGIZED WHEN UNIT IS DE-ENERGIZED.
6. PROVIDE WITH 24-INCH TALL ROOF CURB.
7. PROVIDE WITH HAIL GUARD AND FRESH AIR TEMPERING OPTION.
8. PROVIDE WITH DIFFERENTIAL SENSIBLE ECONOMIZER & BAROMETRIC RELIEF.
9. PROVIDE WITH WALL MOUNTED THERMOSTAT.
10. PROVIDE WITH REMOTE DUCT MOUNTED TEMPERATURE SENSOR; WIRING SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE THERMOSTAT PROVIDED WITH EQUIPMENT.
11. PROVIDE WITH HINGED ACCESS DOORS.
12. PROVIDE WITH HOT-GAS REHEAT CONTROLLED BY FIELD INSTALLED DUCT SENSOR.
13. HVAC UNITS TO BE REPROGRAMMED BASED ON LOVE'S STANDARD CONFIGURATION.



2 DRYER EXHAUST / MAKEUP AIR
NTS

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TYPE	FAN CFM	CAPACITY WATTS	CAPACITY BTU'S	ELECTRICAL VOLT/PH	NOTES
EWH-1	MARKEL	F2F5110CA1L	LAUNDRY	WALL	700	9900	33800	208/1	2
EWH-2	MARKEL	F2F5107CA1L	MECH	WALL	700	7500	26500	208/1	2
EWH-3	MARKEL	HF3326TD-RP	STORAGE	WALL	175	3000	10350	208/1	1

NOTES:
1. BASED ON MARKEL 3320 SERIES UNIT HEATER MODEL HF3325TD-RP. PROVIDE WITH INTEGRAL THERMOSTAT, INTEGRAL DISCONNECT, AND FACTORY MOUNTING BRACKET. UNIT AND ACCESSORIES PROVIDED BY OWNER FOR INSTALL BY CONTRACTOR.
2. OWNER PROVIDED ACCESSORIES: T5100 FIELD INSTALLED THERMOSTAT WITH A5105 MOUNTING BRACKET.

LOUVER SCHEDULE

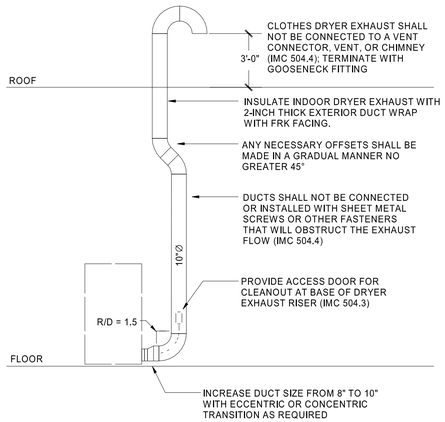
MARK	MANUFACTURER	MODEL	LOCATION	SIZE (IN)	TYPE	MAX AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN H2O)	AIR VELOCITY (FPM)	NOTES
EAL-01	SEIHO	RCC-S	EXTERIOR WALL	6"	EXHAUST	222	0.25	1387	1-3

NOTES:
1. PROVIDE WITH INSECT SCREEN.
2. FLUOROPOLYMER POWDER COAT WITH COLOR ARCHITECTURAL BRONZE.
3. OWNER PROVIDED FOR INSTALLATION BY MECHANICAL CONTRACTOR.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	NOMINAL HEAT REJECTION (BTU/H)	AMBIENT AIR TEMP DB	FLUID WORKING FLUID	FLUID HOLDING REFRIG. CHARGE (LBS)	FLUID APPROX. ADDITIONAL REFRIG. CHARGE (LBS)	ELECTRICAL VOLT/PH	ELECTRICAL MCA	ELECTRICAL MOCP	EFFICIENCY COOLING EFFICIENCY EER	EFFICIENCY HEATING COP (HSPF)	WEIGHT (LB)	NOTES
HP-01	SAMSUNG	AC036BXADCH/AA	36000	95 °F	R410a	6.4	0	208 V/3	25	35	11.5	10.6	192	1-6

NOTES:
1. PROVIDED BY OWNER FOR INSTALLATION BY CONTRACTOR.
2. CONDENSING UNIT ID CORRESPOND WITH INDOOR SYSTEM ID.
3. PROVIDE WITH LOW AMBIENT KIT, WIND BAFFLE, AND HAIL GUARD.
4. INSTALLING CONTRACTOR TO PROVIDE ADDITIONAL REFRIGERANT BASED ON LINE LENGTH.
5. PROVIDE WITH KINETICS AC ISOLATION MOUNT BOLTED TO 8-FT LONG EQUIPMENT RAIL.
6. MANUFACTURER'S REPRESENTATIVE: JOE SANDERS (405) 919-2118.



1 DRYER DUCT SCHEMATIC
NTS

PROJECT SCHEDULE

NAME	LOCATION	OUTSIDE AIR HEATING DB (F)	OUTSIDE AIR COOLING DB/WB (F)	ALTITUDE (FT)
LOVE'S TRAVEL STOP	NICHOLSON, MS	29	93/77	49

AIR BALANCE SCHEDULE

MARK	RETAIL (CFM) S/A	RETAIL (CFM) O/A	RETAIL (CFM) E/A	BACKROOM (CFM) S/A	BACKROOM (CFM) O/A	BACKROOM (CFM) E/A
RTU-1	5800	2000 (ERV-1)	---	---	---	---
RTU-2	---	---	---	3200	1200 (ERV-1)	---
ERV-1	---	2000	---	---	1200	2950
TOTAL	5800	2000	---	3200	1200	2950

RETAIL PRESSURIZATION
(O/A) - (E/A) = +2000 CFM

BACKROOM PRESSURIZATION
(O/A) - (E/A) = -1750 CFM

NET TENANT PRESSURIZATION (RETAIL + BACKROOM) = +250

FIRE/SMOKE DAMPER SCHEDULE

MARK	MANUFACTURER	MODEL	RATING	NOTES
F	GREENHECK	FD-100	1.5 HR	A, B, C

NOTES:
A. SIZE PER ATTACHED DUCT.
B. INSTALL PER NFPA 90 A
C. CONTRACTOR SHALL PROVIDE FIRE/SMOKE DAMPER

SPLIT-DUCTLESS FAN COIL SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SUPPLY (CFM)	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	VOLT/PHASE/FREQ	MCA	MOCP	NOTES
DFC-01	SAMSUNG	AM036NN4DCHAA	CEILING MTD CASSETTE H/P	812	36000	40000	208 V/1/60 Hz	0.49	15	1-8

NOTES:
1. PROVIDED BY OWNER FOR INSTALLATION BY CONTRACTOR.
2. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER THE SIZE OF REFRIGERANT PIPING.
3. PROVIDE WITH CASSETTE GRILLE (PC4SUFMUN).
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE WIRED REMOTE THERMOSTAT (MWR-WE13UN).
6. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
7. PROVIDE WITH HR CHANGER BOX, MODEL MCU-R4NEK0N BETWEEN INDOOR AND OUTDOOR UNITS.
8. MANUFACTURER'S REPRESENTATIVE: JOE SANDERS (405) 919-2118.

HFA
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